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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/527,063	03/09/2005	Takeshi Shimoyama	267144US6PCT	4750

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EXAMINER

ELAMIN, ABDELMONIEM I

ART UNIT	PAPER NUMBER
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2116

DATE MAILED: 09/12/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/527,063

Applicant(s)

SHIMOYAMA, TAKESHI

Examiner

Abdelmoniem Elamin

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 09 March 2005.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-8 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-8 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
- 1) ☒ Certified copies of the priority documents have been received.
 - 2) ☐ Certified copies of the priority documents have been received in Application No. _____.
 - 3) ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|---|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date <u>3/9/2005</u> . | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Claim Rejections - 35 USC § 103

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

2. Claims 1-8 are rejected under 35 U.S.C. 103(a) as being unpatentable over Applicant Admitted Prior Art (hereinafter AAPA) in view of Nakao EU pat. No. 0524712A2.

3. Claims 1, 3, 7-8, Nakao teaches an information processing apparatus operating in synchronism with a synchronizing clock signal of a predetermined frequency, said information processing apparatus [see the specification of the instant application, pages 1-9, Figs. 1-3] comprising:

clock outputting means for varying said frequency of said synchronizing clock signal in order to output said synchronizing clock signal at the varied frequency [*frequency control block 11 of Fig. 1 of the instant application*];

holding means for inputting and holding data when said clock outputting means outputs a first clock signal pulse, said holding means further outputting said data held therein when said clock outputting means outputs a second clock signal pulse following said first clock signal pulse [see the specification of the instant application, page 3, lines 17-24];

AAPA fails to teach selection command generating means for generating a selection command specifying whether or not to transfer said data by bypassing said holding means in accordance with the frequency of said synchronizing clock signal output by said synchronizing

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clock outputting means; and bypassing means for outputting said data by bypassing said holding means if said selection command generated by said selection command generating means specifies that said data be transferred by bypassing said holding means, said bypassing means further outputting said data output by said holding means if said selection command specifies that said data be transferred without bypassing said holding means.

Nakao teaches a programmable delay unit [*title*] comprises a selection command generating means [*see for example elements 51 and 61 of Fig. 4*] for generating a selection command specifying whether or not to transfer data by bypassing holding means [*see abstract, Fig. 4 and related disclosure*].

It would have been obvious to a person of ordinary skill in the art at the time the invention was made to modify AAPA to include a selection command generating means for generating a selection command specifying whether or not to transfer data by bypassing holding means, because it lowers the power consumption [*see Nakao, col. 2, lines 10-15*].

4. Claim 2, AAPA teaches plurality of groups each made up of said holding means and said bypassing means connected in that order, said plurality of groups being connected in cascaded fashion [*see prior art Fig. 1 of this instant application*].

5. Claim 4, Nakao teaches stop controlling means for exercising control to stop processing of said holding means if said selection command generated by said selection command generating means specifies that said data be transferred by bypassing said holding means [*see Nakao, col. 4, lines 4-41*].

6. Claim 5, Nakao teaches said selection command generating means further generates frequency information corresponding to said frequency of said synchronizing clock signal output

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by said synchronizing clock outputting means, before generating said selection command based on the generated frequency information [*see Nakao, Fig. 4, and related disclosure*].

7. Claim 6, Nakao teaches said selection command generating means further receives frequency information which is supplied from an external source and which corresponds to said frequency of said synchronizing clock signal output by said synchronizing clock outputting means [*clock signal of Fig. Fig. 4*], before generating said selection command based on the received frequency information [*see the discussion related to Fig. 4*].

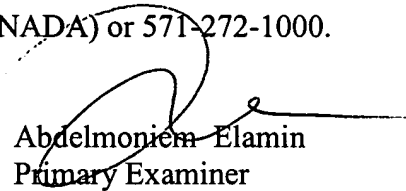
Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Abdelmoniem Elamin whose telephone number is 571-2727-3674. The examiner can normally be reached on MON - THUR 10:00 AM - 6:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Lynne Browne can be reached on 571-272-3670. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.



Abdelmoniem Elamin
Primary Examiner
Art Unit 2116

September 5, 2006